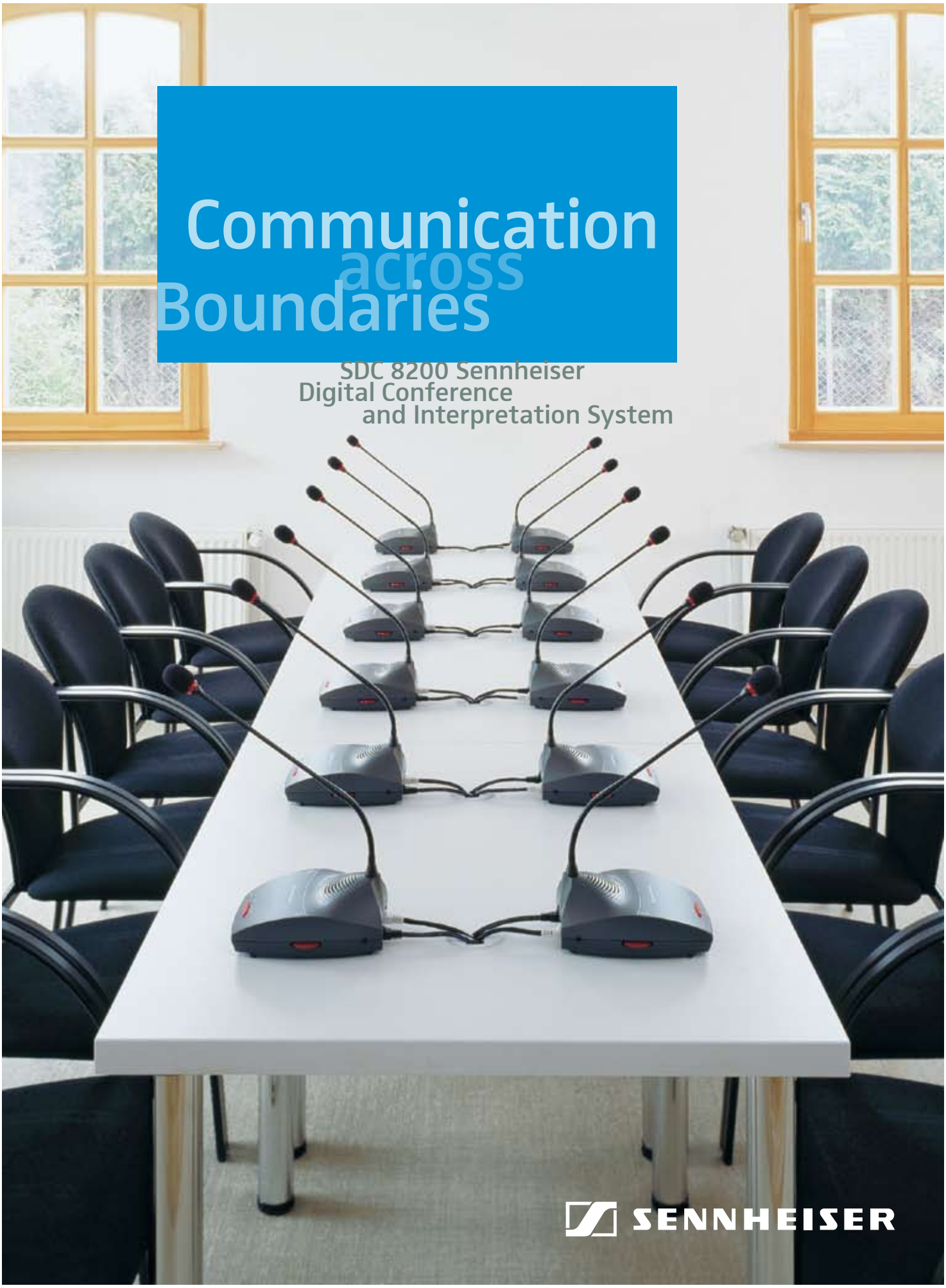
# Communication across Boundaries

SDC 8200 Sennheiser
Digital Conference
and Interpretation System



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**Your first choice for hotels, congress halls,** event venues and conference rooms. When people from all parts of the world meet, a professional conference system is a must. It is the prerequisite for communication across the boundaries of language and the basis for a successful conference. Participants in an event want to concentrate on the topics at hand and need a conference system that is easy to operate. Furthermore, organizers need a system that can quickly adapt to different types of events and varying numbers of participants.
SDC 8200 is the solution you are looking for. Fully digital, the system sets new standards in professional conference technology. SDC 8200 is a flexible communications solution – a sound investment that pays off, again and again. SDC 8200 is available in a variety of configurations catering to different needs. Whether you are hosting a small conference or a large congress – there is always a suitable SDC system for your application.

# Communication

# SDC 8200 – Digital Conference System

## Fully Digital

State-of-the-art digital technology ensures that you can fully concentrate on the event and the participants. SDC 8200 is simple and easily expandable.

## Sophisticated Design

The SDC 8200 system is a valuable addition to your conference venue. All controls have been designed to make conferences as efficient as possible. High-quality built-in loudspeakers create a "distributed" sound reinforcement system, providing excellent sound at a pleasant volume throughout the entire room.

## International

Are you planning a conference with international participants? With SDC 8200 you can directly integrate interpreter consoles into the conference set-up. The system can provide simultaneous interpretation in up to 28 languages with up to 8 interpreters per language. Wherever and whenever you want, SDC 8200 is as flexible as you need it to be.

## Straight-forward Operation

Our engineers have designed the system in such a way that it can be operated intuitively. Participants, chairmen or interpreters – everybody can use their units from the start with ease.

When people from all parts of the world meet, they want to concentrate on the topics at hand and communicate across the boundaries of language and space. Whatever the subject they are discussing, they will need a conference system that is easy to operate but sophisticated enough to allow voting, messaging and simultaneous interpretation into many languages. The modular, expandable and mobile SDC 8200 Digital Conference and Interpretation System brings a host of new features to the conference room, including new terminal configurations to meet any application, from a small seminar to a large international conference with up to 1,024 participants.

# Crossing Boundaries
# SDC 8200
# Conference and Interpretation System

# SDC 8200 – Digital Conference System

SCD 8200

## Crossing the Language Barrier

Interpreters are preoccupied with more important tasks than worrying about which button to press. For this reason, the SDC interpreter unit has been designed according to internationally accepted standards. A convenient display shows all selected settings.

## Speaking Freely

Would you like to get input from the audience? Simply connect one or two RF wireless receivers to the SDC 8200 central unit. Two presenters with wireless microphones can move freely through the venue. All comments are transmitted to the participants' conference terminals. Also an ideal solution for presentations that require freedom of movement.

## Discreet Messaging

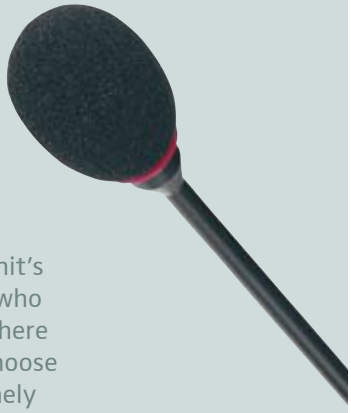
All participants can switch off their mobile phones – and still be reached! The SDC 8200 DV delegate unit features a special messaging function. Via PC, the message is addressed to the correct participant and shown on the display of his or her delegate unit.

## Voting and Polling

The SDC 8200 DV delegate unit offers a voting function with automatic tallying. Participants receive their personal smart card which permits them to vote. A total of five voting keys allows for more complex ballots. Results can be conveniently displayed via a PC and video projector or plasma screen.

## Two-in-one

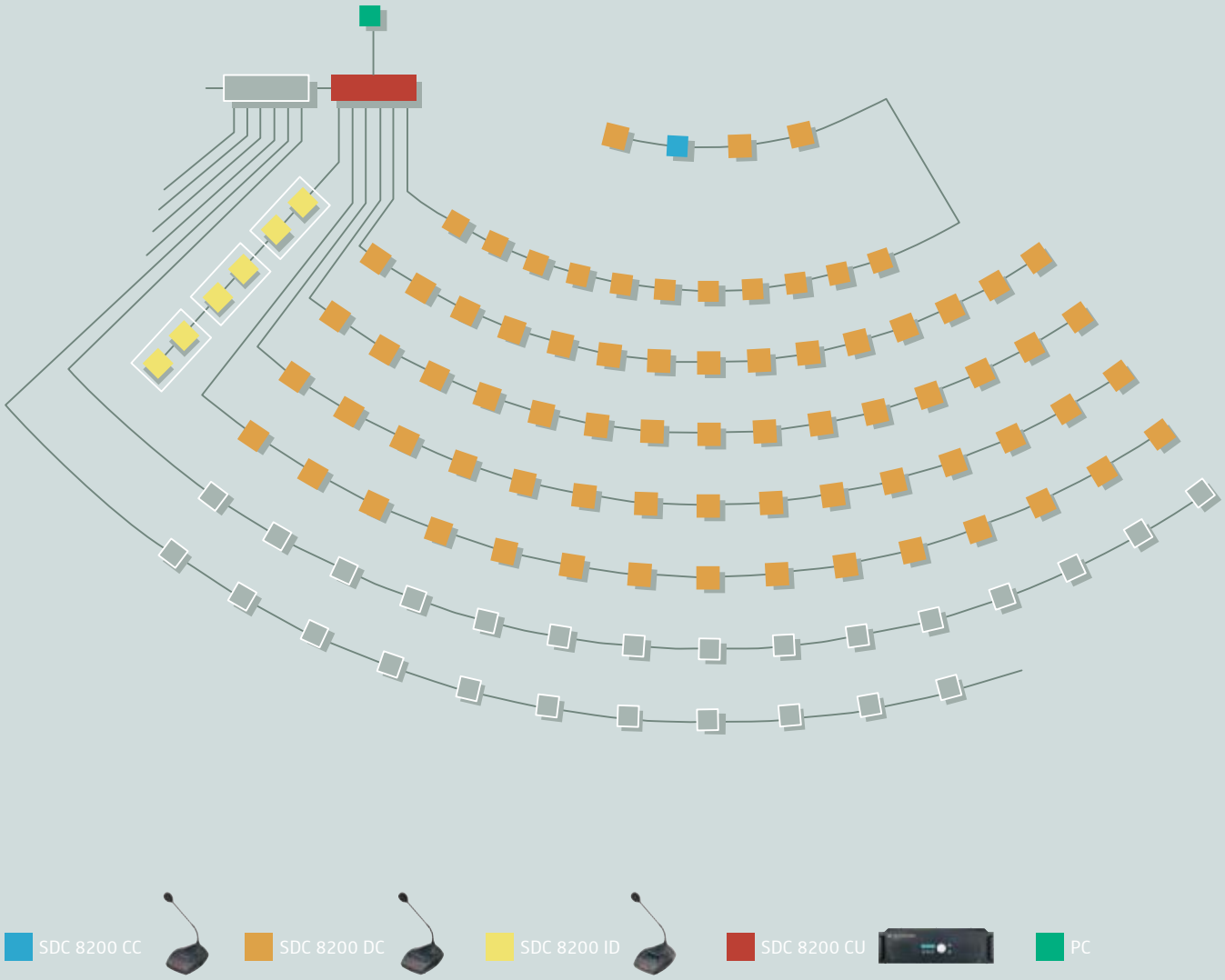
For large events, several SDC 8200 systems can be combined to create systems with up to 1024 conference terminals. Are you planning a larger conference? The SDC 8200 DC is your delegate unit of choice, as it can be used by two participants. For this purpose, the terminal has two separate headphone jacks, for which different languages and volume levels may be chosen.



## On Air

The LED ring on the delegate unit's gooseneck microphone shows who has currently taken the floor. There are ten conference modes to choose from, making SDC 8200 extremely flexible.

# SDC 8200 – The Entire Series




**Keep the delegates connected.** If you are planning a conference with international participants, the SDC 8200 lets you directly integrate interpreter consoles into the conference setup. The system can provide simultaneous interpretation in up to 28 languages with up to 8 interpreters per language. Easy to set up and dismantle, the conference terminals are simply connected in series and linked to the Central Unit. By daisy-chaining several central units, additional stations can be added, creating systems with up to 1024 conference terminals. Interpreters and chairmen can be placed anywhere in the conference room. You can integrate audience input via wired or wireless microphones, arrange complex voting ballots and use the terminals for messaging. You can also control and monitor the whole proceedings via PC.

**SDC 8200 D** **The basic version** of the SDC delegate unit features a gooseneck microphone, built-in loudspeaker, two headphone jacks with individual volume controls, MIC key, LED status display, and three voting keys (yes, no, abstain).

**SDC 8200 C** **The basic version of the chairman's unit** incorporates the same features as the SDC 8200 D delegate unit plus two special keys for switching off live microphones (priority key) and for activating the microphone of the next participant who would like to speak (when in Request mode).

# SDC 8200 – The Entire Series

**SDC 8200 DC** **This delegate unit** has the same basic features as the SDC 8200 D, but also has two independent sets of channel selection keys for listening to the translated language. Two delegates can share the same unit, even listening to different languages, if they so desire. (Only one participant can vote, though; so if the voting function is needed it is better to have one unit per delegate.)

**SDC 8200 CC** **Incorporates the same functions** as the SDC 8200 DC delegate unit plus two special keys for switching off live microphones (priority key) and for activating the microphone of the next participant who has requested to speak (when in Request mode).

**SDC 8200 DV** **This top-of-the-range delegate unit** is designed for a single user. It incorporates the same basic functions of the SDC 8200 DC, but adds two further voting keys so that "choice of 5" voting can be done as well as the standard "yes, no, abstain" voting. It also has a card reader for secure "smart card" voting as well as an LCD display for identification and for displaying voting results. Individual or global text messages can be sent to this unit when the system is PC controlled.

**SDC 8200 CV** **This top-of-the-range chairman's unit** incorporates the same functions as the SDC 8200 DV delegate unit. In addition, it features a comprehensive voting menu and two special keys for switching off live microphones (priority key) and for activating the microphone of the next participant who has requested to speak (when in Request mode).

# SDC 8200 – The Entire Series

**SDC 8200 ID** **The interpreter unit** has been designed according to international ISO standards. It can either be used with the built-in gooseneck microphone or, optionally, with a headset. The unit comes with two headphone jacks, a socket for the headset microphone, volume and tone controls, display, A/B output channel selection and three relay-preset keys for selection of incoming languages.

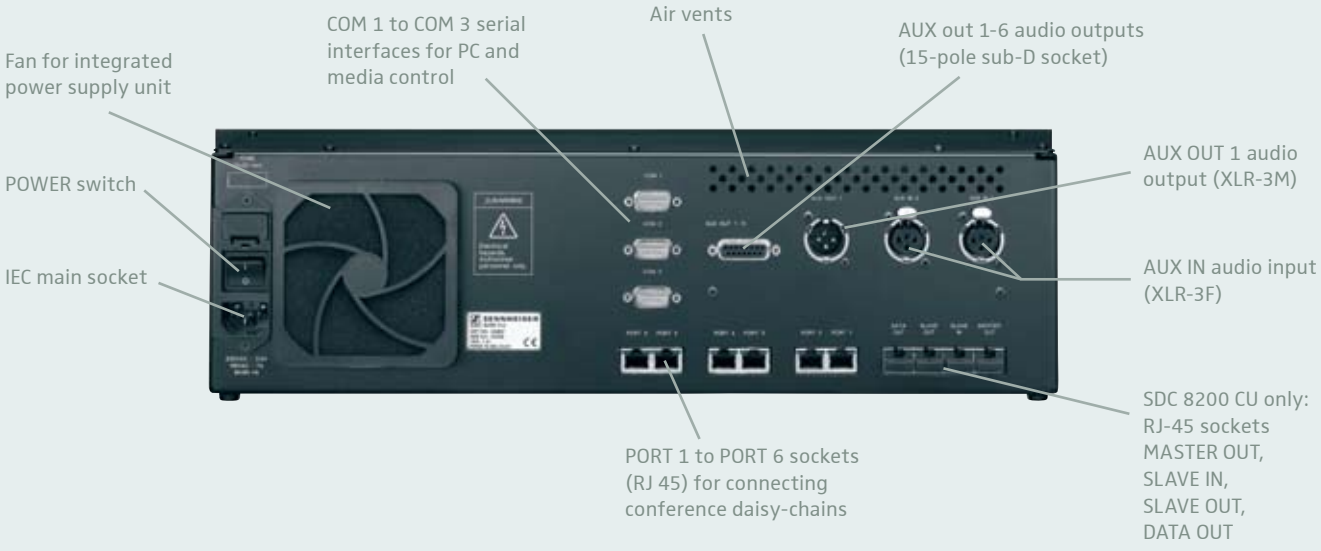
## Technical Data

| Model | SDC 8200 C | SDC 8200 D | SDC 8200 CC | SDC 8200 DC | SDC 8200 CV | SDC 8200 DV | SDC 8200 ID |
|---|---|---|---|---|---|---|---|
| Standards | – | – | – | – | – | – | ISO 2603<br>ISO 849 |
| Audio frequency response | 100 – 14,000 Hz | 100 – 14,000 Hz | 100 – 14,000 Hz | 100 – 14,000 Hz | 100 – 14,000 Hz | 100 – 14,000 Hz | 100 – 14,000 Hz |
| Microphone pick-up pattern | cardioid | cardioid | cardioid | cardioid | cardioid | cardioid | cardioid |
| Headphone jack(s) | 3.5 mm mono<br>(≥ 32 Ω) | 3.5 mm mono<br>(≥ 32 Ω) | 3.5 mm mono<br>(≥ 32 Ω) | 3.5 mm mono<br>(≥ 32 Ω) | 3.5 mm mono<br>(≥ 32 Ω) | 3.5 mm mono<br>(≥ 32 Ω) | 3.5 mm mono<br>(≥ 32 Ω) |
| Operating voltage | 48 V DC | 48 V DC | 48 V DC | 48 V DC | 48 V DC | 48 V DC | 48 V DC |
| Power consumption | max 2.5 W | max. 2.5 W | max. 2.5 W | max. 2.5 W | max. 3.5 W | max. 3.5 W | max. 3.5 W |
| Operating temperature range | 0° to + 50° C | 0° to + 50° C | 0° to + 50° C | 0° to + 50° C | 0° to + 50° C | 0° to + 50° C | 0° to + 50° C |
| Finish | Pantone<br>Black 7 C | Pantone<br>Black 7 C | Pantone<br>Black 7 C | Pantone<br>Black 7 C | Pantone<br>Black 7 C | Pantone<br>Black 7 C | Pantone<br>Black 7 C |
| Housing | ABS | ABS | ABS | ABS | ABS | ABS | ABS |
| Dimensions (inches) | 5.9 x 3.1 x 7.2 | 5.9 x 3.1 x 7.2 | 5.9 x 3.1 x 7.2 | 5.9 x 3.1 x 7.2 | 5.9 x 3.1 x 7.2 | 5.9 x 3.1 x 7.2 | 5.9 x 3.1 x 7.2 |
| Length of gooseneck (inches) | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 |
| Weight (lbs.) | 1.25 | 1.25 | 1.25 | 1.25 | 1.3 | 1.3 | 1.32 |
| Connectors | 2 x RJ 45 sockets for connecting up to 20 units in one cable line | | | | | | |

## Accessories

- RJ 45 conference bus cables, type 24 AWG, available lengths: 2 m (6.6 ft), 3 m (9.9 ft), 5 m (16.5 ft), 10 m (33 ft), 20 m (66 ft), 50 m (165 ft) (Please note: Do not use standard Ethernet AWG 26 cables!)
- HD 1029 headphones
- Sennheiser Communications PC Series headset
- SDC 8000 CARD, smart card for participant identification

# SDC 8200 – The Entire Series


Fan for integrated power supply unit
POWER switch
IEC main socket
COM 1 to COM 3 serial interfaces for PC and media control
Air vents
AUX out 1-6 audio outputs (15-pole sub-D socket)
AUX OUT 1 audio output (XLR-3M)
AUX IN audio input (XLR-3F)
SDC 8200 CU only: RJ-45 sockets MASTER OUT, SLAVE IN, SLAVE OUT, DATA OUT
PORT 1 to PORT 6 sockets (RJ 45) for connecting conference daisy-chains

**SDC 8200 CU/CU-M** **The heart of every system.** These central units feature a host of control functions plus all the connection sockets required for the delegate units, additional audio sources, monitoring headphones, PC, interpretation management and camera control. While the SDC 8200 CU is the ideal choice for large international conferences with many hundreds of delegates (several CU can be connected together for very large systems), the SDC 8200 CU-M has been designed for smaller applications; it has a limit of 50 terminals and four interpreted language channels with a maximum of two interpreter units per language.

POWER SUPPLY LED (lights up when power is supplied to the SDC 8200 AO)
FLOOR LED (lights up when the floor channel is used)
SYNC. LED (lights up when the data exchange between the central unit and the SDC 8200 AO functions correctly)

Phono socket (unbalanced), 10x
Phoenix connector (e.g. for remotely switching a recording unit on or off via a floating contact)
DIGITAL BUS OUT socket (RJ 45) for connecting an additional SDC 8200 AO
XLR-3M audio output (transformer balanced), 9x
DIGITAL BUS IN socket (RJ 45) for connection of the central unit

**SDC 8200 AO** This optional audio interface can be connected to the SDC 8200 CU central unit, providing the floor language channel plus eight interpreted language channels for connecting recording equipment or infra-red transmission systems.

# Technical Data

## Technical Data of SDC 8200 CU/SDC 8200 CU-M

| | |
|---|---|
| Audio inputs | AUX IN 1, 2; XLR-3F, balanced |
| Input level | + 6 dBu |
| Input impedance | > 6 kΩ at 1 kHz |
| Audio frequency response | 100 – 14,000 Hz |
| Audio output AUX OUT 1 | XLR-3M, balanced |
| Output level | max. 6 dBu |
| Output impedance | < 200 Ω at 1 kHz |
| Signal-to-noise ratio | 78 dBA |
| Audio output AUX OUT 1 – 6 | SUB-D-15, unbalanced |
| Output level | max. 0 dBu |
| Output impedance | < 100 Ω at 1 kHz |
| Signal-to-noise ratio | 75 dBA |
| PC interfaces | COM 1, 3: RS 232 SUB-D-9 |
| Camera control, media control | COM 2: RS 232 SUB-D-9 |
| Power supply | 88 – 264 V (47 – 63 Hz) |
| Power consumption | max. 3.5 A/230 V; 7.0 A/115 V |
| Fuse | 3.15 A/230 V; 7.0 A/115 V |
| Output voltage | 48 V (conference ports 1 to 6) |
| Operating temperature range | 0° to +50° C |
| Fan noise | 48 dBA SPL at 1 m |
| Dimensions | 19.09 x 5.5 x 10.4 in. |
| Weight | 13.2 lbs. |

## Comparison between SDC 8200 CU and SDC 8200 CU-M

| Model | SDC 8200 CU | SDC 8200 CU-M |
|---|---|---|
| Max. number of conference terminals | 120 | 50 |
| Can be used with SDC 8200 DV | yes | no |
| Cascadable | yes (system max. 1024 conference terminals) | no (max. 50 conference terminals) |
| Language channels | 4/8/28 (depending on licence) | 4 |
| Interpreter units per language | 1 to 8 | 1 or 2 |
| Supported voting modes | one out of three, one out of five | one out of three |
| Camera and media control | yes | yes |
| Connection of SDC 8200 AO | up to 4 | no |
| Control software | SDC 8200 SYS | SDC 8200 SYS-M |

## Technical Data of SDC 8200 AO

| | |
|---|---|
| Operating voltage | 48 V DC via SDC 8200 CU DATA OUT Port |
| Audio frequency response | 100 – 14,000 Hz |
| Output level | max. 0 dBu |
| Output impedance | ≤ 80 Ω at 1 kHz |
| Signal-to-noise ratio | 77 dBA |
| Operating temperature range | 0° to +50° C |
| Dimensions | 19.09 x 1.75 x 7.3 in. |
| Weight | 5.9 lbs. |

## Use the performance of SDC 8200 with the configuration and control software SDC 8200 SYS.

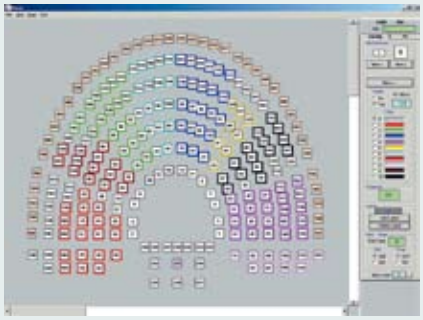
At major conferences, control and monitoring are the key factors in ensuring that the event runs smoothly. SDC 8200 SYS makes it easy for conference managers to organize the speeches and contributions from participants throughout the hall. A simple mouse click allows speakers to address the meeting. If a fixed seating plan is available, names can be assigned to the seats, making it possible to simply click on the name of the speaker in order to activate the microphone at the correct seat. If required, addresses and party memberships can also be stored in a database.

A prepared agenda ensures that the participants are unambiguously guided through voting procedures. After the voting session has ended, the system provides a graphic evaluation of the results. A further set of networked video PCs and projectors allows all participants to see the results of the voting immediately, presented either as a bar chart or a pie chart. The various applications can be put together in a modular way according to customer requirements. Modules available for use with the SDC 8200 SYS for SDC 8200 CU applications include the SDC 8200 S-MM Microphone Management, SDC 8200 S-VM Voting Management, SDC 8200 S-VD Voting Result Display, SDC 8200 S-IM Interpreter Management and SDC 8200 S-DM Delegate Management.

## SDC 8200 SYS-M is the all-in-one software package for smaller conference systems

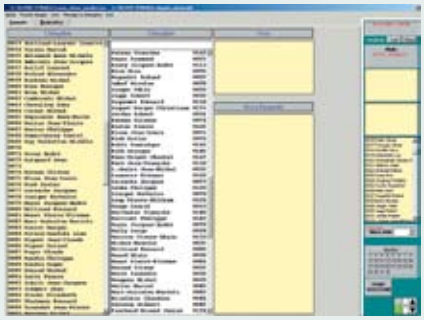
that use the SDC 8200 CU-M central unit. It contains everything needed for controlling and monitoring a conference but will only support – like the SDC 8200 CU-M central unit – up to 50 conference terminals and "yes/no/abstain" voting only. This software (running on the master PC) can be used with one slave PC and one video PC (for voting results display).

- Conference configuration
- Microphone control with seating plan
- Microphone control via name list
- Participant database
- Voting module
- Agenda administration
- Graphic display of voting results
- Print-out of voting results via network slave PCs (SDC 8200 SYS-M: one slave PC)
- Smart card programming (SDC 8200 SYS only)
- Text messaging (SDC 8200 SYS-M: only to SDC 8200 CV chairman's unit)
- Interpreter configuration
- Conference control via network slave PCs (SDC 8200 SYS-M: one slave PC)



Individual conference hall graphics

Voting function



Delegate management

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